

## **SYSTEMS AND METHODS FOR EFFICIENT QUANTIZATION**

### **ABSTRACT OF THE DISCLOSURE**

A method in a signal processor for quantizing a digital signal is provided. A fixed-point approximation of a value  $X \div Q$  is generated, wherein X is a fixed-point value based on one or more samples in the digital signal, and wherein Q is a fixed-point quantization parameter. A correction is generated, and the approximation is modified with the correction.

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